



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: KUNDU, et al.

Serial No: 09/748,468

Filed: 12/26/00

Title: SPECIFIC ANTIBODIES TO
KRINGLE 5 OF APO(A) AND METHODS
OF USE THEREFOR

Case No.: 6296.US.D1

Group Art No.: Unknown

Examiner: Unknown

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed as follows:

Assistant Commissioner for Patents
Washington, D.C. 20231

Date of Deposit: March 9, 2001

Linda L. Powell
Linda L. Powell

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Enclosed herewith for the patent application identified above entitled Specific Antibodies to Kringle 5 of APO(A) and Methods of use Therefor are the following:

1. Information Disclosure Statement;
2. Form PTO 1449, in duplicate;
3. References as cited on PTO 1449 (43 References); and
4. Return Receipt Postcard

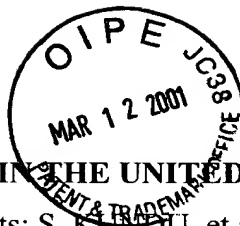
The Commissioner is hereby authorized to charge any additional Filing Fees required under 37 CFR § 1.16, as well as any patent application processing fees under 37 CFR § 1.17 associated with this communication for which full payment had not been tendered, to Deposit Account No. 01-0025.

Respectfully submitted,
S. Kundu, et al.

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

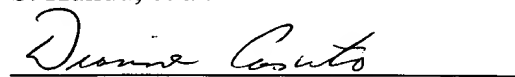
Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. This Information Disclosure Statement is being filed, to the knowledge of the undersigned, before the mailing date of a first Office Action on the merits. Applicants respectfully petition and request that the Examiner consider the listed documents and evidence such consideration by making appropriate notations on the attached form. Copies of the listed documents are attached.

This submission does not represent that a search has been made or that no better art exists, and does not constitute an admission that each or all of the listed documents are material or constitute "prior art". If it should be determined that any of the listed documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

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DATE:

SHEET 1 OF 3

Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98 (b))

ATTY. DOCKET NO.

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APPLICANT(S)

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Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A1	4,945,040	07-31-90	Fless, et al.			
	A2	5,187,098	02-16-93	Malke, et al.			
	A3	5,229,073	07-20-93	Luo, et al.			
	A4	5,272,166	12-21-93	Breslow, et al.			
	A5	5,278,189	01-11-94	Rath, et al.			
	A6	5,320,968	06-14-94	Seman			
	A7	5,490,981	02-13-96	Chiknas			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION	
							YES	NO
	B1	EP 0 631 284 A1	10-26-94	EPO				
	B2	EP 0 764 657 A1	03-26-97	EPO				
	B3	WO 93/18067	09-16-93	WIPO				
	B4	WO 94/00483	01-06-94	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

	C1	Albers, et al., <u>Clinical Chemistry</u> , <i>The Unique Lipoprotein(a): Properties and Immunochemical Measurement</i> , 36/12:2019-2026 (1990)
	C2	Albers, et al., <u>Lipidology</u> , <i>Lipoprotein(a) Quantification: Comparison of Methods and Strategies for Standardization</i> , 5:417-421 (1994)
	C3	Chenivresse, et al., <u>Protein Expression and Purification</u> , <i>Expression of a Recombinant Kringle V of Human Apolipoprotein(a): Antibody Characterization and Species Specificity</i> , 8:145-150 (1996)
	C4	Church, et al., <u>Hybridoma</u> , <i>A Kringle-Specific Monoclonal Antibody</i> , 13:423-429 (1994)
	C5	Dieplinger, et al., <u>Journal of Lipid Research</u> , <i>Kringle 4 of Human Apolipoprotein(a) Shares a Linear Antigenic Site with Human Catalase</i> , 36:813-822 (1995)
	C6	Eaton, et al., <u>Proc. Nat. Acad. Sci.</u> , <i>Partial Amino Acid Sequence of Apolipoprotein(s) Shows that it is Homologous to Plasminogen</i> , 84:3224-3228 (1987)

EXAMINER

DATE CONSIDERED

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SHEET 2 OF 3

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Unknown

(37 CFR 1.98 (b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUB CLASS	FILING DATE
	A8	5,597,908	01-28-97	Taddei-Peters, et al.			
	A9	5,712,157	01-27-98	Marcovina, et al.			
	A10	5,721,138	02-24-98	Lawn			
	A11	5,783,400	07-21-98	Gebbski, et al.			
	A12	5,786,156	07-28-98	Taddei-Peters, et al.			
	A13	5,874,544	02-23-99	Taddei-Peters, et al.			
	A14	5,981,484	11-09-99	Davidson			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLIC- ATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUB CLASS	TRANS- LATION YES	NO
	B5	WO 96/00903	01-11-96	WIPO				
	B6	WO 96/19500	06-27-96	WIPO				
	B7	WO 97/17371	05-15-97	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C7	Edelstein, et al., <i>Journal of Lipid Research</i> , <i>Functional and Metabolic Differences Between Elastase-Generated Fragments of Human Lipoprotein(a) and Apolipoprotein(a)</i> , 37:1786-1801 (1996)
C8	Fless, et al., <i>Journal of Lipid Research</i> , <i>Enzyme-Linked Immunoassay for Lp(a)</i> , 30:651-662 (1989)
C9	Gaubatz, et al., <i>Methods in Enzymology</i> , [10] <i>Quantitation, Isolation, and Characterization of Human Lipoprotein(a)</i> , 129:167-185 (1986)
C10	Keesler, et al., <i>The Journal of Biological Chemistry</i> , <i>The Binding Activity of the Macrophage Lipoprotein(a)/Apolipoprotein(a) Receptor is Induced by Cholesterol via a Post-Translational Mechanism and Recognizes Distinct Kringle Domains on Apolipoprotein(a)</i> , 271:32096-32104 (1996)
C11	Klezovitch, et al., <i>Lipidology</i> , <i>Heterogeneity of Lipoprotein(a): Growing Complexities</i> , 6:223-228 (1995)
C12	Labeur, et al., <i>Lipidology</i> , <i>Methods for the Measurement of Lipoprotein(a) in the Clinical Laboratory</i> , 3:372-376 (1992)

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SHEET 3 OF 3

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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

C13	Lackner, et al., <u>Human Molecular Genetics</u> , <i>Molecular Definition of the Extreme Size Polymorphism in Apolipoprotein(a)</i> , 2:933-940 (1993)
C14	Lafferty, et al., <u>Journal of Lipid Research</u> , <i>Immunochemistry of Human Lp(a): Characterization of Monoclonal Antibodies that Cross-React Strongly with Plasminogen</i> , 32:277-292 (1991)
C15	Li, et al., <u>Protein Expression and Purification</u> , <i>Expression and Purification of Kringle 4-Type 2 of Human Apolipoprotein(a) in Escherichia Coli</i> , 3:212-222 (1992)
C16	Marcovina, et al., <u>Lipids and Lipoproteins</u> , <i>Effect of the Number of Apolipoprotein(a) Kringle 4 Domains on Immunochemical Measurements of Lipoproteins(a)</i> , 41/2:246-255 (1995)
C17	Marconvina, et al., <u>Lipidology</u> , <i>Structure and Metabolism of Lipoprotein(a)</i> , 6:136-145 (1995)
C18	McLean, et al., <u>Nature</u> , <i>cDNA Sequence of Human Apolipoprotein(a) is Homologous to Plasminogen</i> , 330:132-137 (1987)
C19	Morrisett, et al., <u>Plasma Lipoproteins</u> , <i>Lipoprotein(a): Structure, Metabolism and Epidemiology</i> , Chapter 4:129-152 (1987)
C20	Rainwater, et al., <u>Atherosclerosis</u> , <i>Immunochemical Characterization and Quantitation of Lipoprotein(A) in Baboons</i> , 73:23-31 (1988)
C21	Van der Hoek, et al., <u>Human Molecular Genetics</u> , <i>The Apolipoprotein(a) Kringle IV Repeats which Differ from the Major Repeat Kringle are Present in Variably-Sized Isoforms</i> , Vol. 2, No. 4:361-366 (1993)
C22	Wong, et al., <u>Clinical Chemistry</u> , <i>A Monoclonal-Antibody-Based Enzyme-Linked Immunosorbent Assay of Lipoprotein(a)</i> , 36/2:192-197 (1990)

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